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4. N.A. Peppas\* and A.G. Mikos, "Polymer/Glycoprotein Chain Interpenetration in Bioadhesion," 12th International Symposium on Controlled Release of Bioactive Materials, Geneva, Switzerland, July 9, 1985.
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  70. R.C. Thomson, M.J. Yaszemski, J.M. Powers, T.P. Harrigan, and A.G. Mikos\*, “Poly(a-Hydroxy Ester)/Short Fiber Hydroxyapatite Composite Foams for Orthopedic Application,” MRS Spring Meeting, San Francisco, California, April 17, 1995.
  71. L.J. Suggs\*, R.G. Payne, E.Y. Kao, L.B. Alemany, M.J. Yaszemski, K.K. Wu, and A.G. Mikos, “The Synthesis and Characterization of a Novel Block Copolymer Consisting of Poly(Propylene Fumarate) and Poly(Ethylene Oxide),” MRS Spring Meeting, San Francisco, California, April 19, 1995.



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72. A.G. Mikos\*, "Delivery of Antisense Oligonucleotides with Biodegradable Polymers," 41st ASAIO (American Society for Artificial Internal Organs) Annual Conference, Chicago, Illinois, May 6, 1995.
73. R.C. Thomson, J.H. Colier, A.G. Mikos, C.A. Garcia, and G.G. Giordano\*, "Physical Characteristics of Biodegradable Polymer Substrates for RPE Cells," Annual ARVO (Association for Research in Vision and Ophthalmology) Meeting, Fort Lauderdale, Florida, May 15, 1995.
74. G.G. Giordano\*, I.H. Husaini, D. Lahiri-Munir, A.G. Mikos, and C.A. Garcia, "Biodegradable Polymer Films for RPE Cell Transplantation," Annual ARVO (Association for Research in Vision and Ophthalmology) Meeting, Fort Lauderdale, Florida, May 15, 1995.
75. R.C. Thomson\*, G.G. Giordano, J.H. Collier, S.L. Ishaug, A.G. Mikos, D. Lahiri-Munir, S. Cumber, and C.A. Garcia, "Biodegradable Poly(a-hydroxy ester) Thin Films as Temporary Substrates for Retinal Pigment Epithelium Cell Transplantation," ASME Summer Bioengineering Conference, Beaver Creek, Colorado, June 29, 1995.
76. S.L. Ishaug, M.J. Yaszemski\*, R. Bizios, T.B. Aufdemorte, and A.G. Mikos, "Osteoblast Migration on Biodegradable Poly(a-Hydroxy Esters)," ASME Summer Bioengineering Conference, Beaver Creek, Colorado, June 29, 1995.
77. A.G. Mikos\*, "Tissue-Engineered Trabecular Bone," International Business Communications Conference on Tissue Engineering and Repair, Washington, D.C., August 9, 1995.
78. G.M. Crane\*, S.L. Ishaug, M.J. Miller, A.W. Yasko, T.B. Aufdemorte, M.J. Yaszemski, and A.G. Mikos, "Bone Formation Using Porous Poly(Lactic-co-Glycolic Acid) Seeded with Stromal Osteoblast Cells," Annual BMES Fall Meeting, Boston, Massachusetts, October 6, 1995.
79. M.J. Miller\*, D.P. Goldberg, A.W. Yasko, J.C. Lemon, W.C. Satterfield, and A.G. Mikos, "An *In Vivo* Model for Tissue-Engineered Bone Flaps," Annual BMES Fall Meeting, Boston, Massachusetts, October 8, 1995.
80. A.G. Mikos\*, "Engineering Trabecular Bone Using Biodegradable Polymers," Taniguchi Conference on the Tissue Engineering with the Use of Biomedical Polymers, Kyoto, Japan, November 9, 1995.
81. A.D. Ouellette\*, J.-L. Tang, A.-L. Tsai, K.K. Wu, and A.G. Mikos, "Targeted Gene Delivery to Endothelial Cells to Prevent Thrombosis and Restenosis," Annual AIChE Meeting, Miami Beach, Florida, November 14, 1995.
82. A.C. Jen, S.L. Ishaug, M.J. Yaszemski, L.V. McIntire, and A.G. Mikos\*, "Three Dimensional *In Vitro* Polymer-Matrix/Cell Model for Bone Formation," Annual AIChE Meeting, Miami Beach, Florida, November 15, 1995.
83. M.J. Miller\*, D.P. Goldberg, A.W. Yasko, J.C. Lemon, W.C. Satterfield, M.C. Wake, A.G. Mikos, and M.J. Yaszemski, "Prefabricated Bone Flaps in Sheep," Annual ASRM (American Society for Reconstructive Microsurgery) Meeting, Tucson, Arizona, January 16, 1996.
84. G.M. Crane\*, S.L. Ishaug, M.J. Miller, M.J. Yaszemski, and A.G. Mikos, "Three-Dimensional Bone Formation Using Biodegradable Polymer/Stromal Osteoblast Constructs," Keystone Symposium on Tissue Engineering, Taos, New Mexico, January 24, 1996.



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85. M.J. Yaszemski\* and A.G. Mikos, "Degradable Polymers with Osteoblast Transplantation as Strategies for Bone Tissue Engineering," Cell Culture Engineering V (Engineering Foundation Conferences), San Diego, California, January 30, 1996.
86. A.D. Ouellette\*, K.-H. Ruan, A.-L. Tsai, K.K. Wu, and A.G. Mikos, "Synthesis and Characterization of a Poly(L-lysine)/Anti-Thrombomodulin Conjugate for Targeted Gene Delivery to Endothelial Cells," 14th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 8, 1996.
87. S.J. Peter\*, P.A. Engel, L.B. Alemany, M.J. Miller, M.J. Yaszemski, and A.G. Mikos, "Synthesis and Characterization of an Osteoinductive, Injectable, Biodegradable Bone Cement," 14th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 8, 1996.
88. M.C. Wake\*, P.K. Gupta, and A.G. Mikos, "Fabrication of Pliable Biodegradable Polymer Foams to Engineer Soft Tissues," 14th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 8, 1996.
89. S.L. Ishaug, G.M. Crane\*, M.J. Yaszemski, and A.G. Mikos, "Three-Dimensional Calvaria Osteoblast Culture in Biodegradable Polymer Scaffolds," 14th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 8, 1996.
90. A.C. Jen\*, S.L. Ishaug, M.J. Yaszemski, L.V. McIntire, and A.G. Mikos, "Three Dimensional *In Vitro* Mechanical Model for Bone Formation," 14th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 8, 1996.
91. E.K. Beahm\*, R.C. Thomson, M.J. Yaszemski, A.G. Mikos, and M.J. Miller, "Guided Bone Growth in Sheep," 14th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 8, 1996.
92. S.L. Ishaug\*, G.M. Crane, M.J. Miller, M.J. Yaszemski, and A.G. Mikos, "Bone Formation Using Stromal Osteoblasts Cultured in Biodegradable Polymer Foams," 14th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 8, 1996.
93. L.J. Suggs\*, M.J. Yaszemski, K.K. Wu, and A.G. Mikos, "The Synthesis and Characterization of a Novel Block Copolymer Consisting of Poly(propylene fumarate) and Poly(ethylene glycol)," 14th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 8, 1996.
94. G.M. Crane, S.L. Ishaug\*, M.J. Miller, M.J. Yaszemski, and A.G. Mikos, "Three-Dimensional Bone Formation Using Biodegradable Polymer/Stromal Osteoblast Constructs," 15th Southern Biomedical Engineering Conference, Dayton, Ohio, March 31, 1996.
95. A.G. Mikos\*, "Biomaterials for Tissue Engineering" (Outstanding Young Investigator Award Presentation), MRS Spring Meeting, San Francisco, California, April 9, 1996.
96. L. Lu\*, R.C. Thomson, A.G. Mikos, R.C. Hunt, G.G. Giordano, C.A. Garcia, and D. Lahiri-Munir, "Human RPE Like Cell Culture on Biodegradable Polymer Substrates," Annual ARVO (Association for Research in Vision and Ophthalmology) Meeting, Fort Lauderdale, Florida, April 21, 1996.
97. S.L. Ishaug, G.M. Crane, and A.G. Mikos\*, "3-D Osteoblast Culture in Biodegradable Polymer Foams," 5th World Biomaterials Congress, Toronto, Canada, May 30, 1996.



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98. M.C. Wake\*, P.K. Gupta, and A.G. Mikos, "Pliable Degradable Polymer Foams to Engineer Soft Tissues," 5th World Biomaterials Congress, Toronto, Canada, June 2, 1996.
99. A.C. Jen\*, S.L. Ishaug, M.J. Yaszemski, L.V. McIntire, and A.G. Mikos, "Three Dimensional *In Vitro* Mechanical Model for Bone Formation," 5th World Biomaterials Congress, Toronto, Canada, June 2, 1996.
100. A.G. Mikos\*, "Osteoblast Transplantation and Bone Tissue Engineering," International Symposium on Endocrine Cell Transplantation and Genetic Engineering, Giessen, Germany, June 18, 1996.
101. A.D. Ouellette\*, K.-H. Ruan, A.-L. Tsai, K.K. Wu, and A.G. Mikos, "A Poly(L-Lysine)/ Anti-Thrombomodulin Conjugate for Targeted Gene Delivery to Endothelial Cells," 23rd International Symposium on Controlled Release of Bioactive Materials, Kyoto, Japan, July 9, 1996.
102. S.J. Peter and A.G. Mikos\*, "Injectable Cell Adhesion Specific Biodegradable Polymers," 5th World Congress of Chemical Engineering, San Diego, California, July 16, 1996.
103. S.L. Ishaug, G.M. Crane, M.J. Yaszemski, and A.G. Mikos\*, "Three-Dimensional Osteoblast Migration in Biodegradable Polymer Foams," 5th World Congress of Chemical Engineering, San Diego, California, July 16, 1996.
104. R.L. Cleek, A.G. Mikos\*, A.A. Rege, L. Denner, and S.G. Eskin, "Controlled Delivery of Inhibitors of Smooth Muscle Cell Proliferation Using Biodegradable Polymer Microparticles," 5th World Congress of Chemical Engineering, San Diego, California, July 17, 1996.
105. A.C. Jen, A.G. Mikos\*, J. Mayer, and E. Wintermantel, "Biocompatible Fiber-Reinforced Composites for Culturing Osteoblasts," Annual BMES Fall Meeting, State College, Pennsylvania, October 6, 1996.
106. S.J. Peter, J. Nolley, P.S. Engel, L.B. Alemany, A.G. Mikos\*, M.J. Miller, and M.J. Yaszemski, "Synthesis and Characterization of a Functionalized, Unsaturated Linear Polyester," Annual AIChE Meeting, Chicago, Illinois, November 13, 1996.
107. R.L. Cleek\*, A.G. Mikos, A.A. Rege, L. Denner, and S.G. Eskin, "Inhibition of bFGF-Stimulated Smooth Muscle Cell Proliferation by a bFGF Antibody Released from Biodegradable Polymer Microparticles," Annual AIChE Meeting, Chicago, Illinois, November 14, 1996.
108. L.J. Suggs\*, E.Y. Kao, A.G. Mikos, M.J. Yaszemski, and K.K. Wu, "The Characterization of a Poly(Propylene Fumarate) and Poly(Ethylene Glycol) Block Copolymer and Evaluation of the Crosslinked Material for Use as a Vascular Implant," Annual AIChE Meeting, Chicago, Illinois, November 15, 1996.
109. R.D. Bostrom\* and A.G. Mikos, "Effects of Cell Culture Conditions on Bone Tissue Growth Penetration into Biodegradable Polymer Scaffolds," Annual AIChE Meeting, Chicago, Illinois, November 15, 1996.
110. D.A. Ray, A.W. Yasko\*, S.L. Ishaug, G.M. Crane, and A.G. Mikos, "Orthotopic Bone Formation Using Porous Poly(Lactic-co-Glycolic Acid) Implants Seeded with Syngeneic Osteoblasts," Annual AIChE Meeting, Chicago, Illinois, November 15, 1996.
111. A.C. Jen, J.L. Almaguer, S.D. Cho, M.S. Widmer, A.G. Mikos\*, K. Akanbi, and M.C. Farach-Carson, "Three-Dimensional Polymer/Cell Mechanical Model for Bone Formation," Post-ASME Workshop on Cell Biomechanics, Georgia Institute of Technology, Atlanta, Georgia, November 23, 1996.



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112. J.A. Nolley\*, S.J. Peter, A.W. Yasko, M.J. Yaszemski, and A.G. Mikos, "Degradation Study of a Poly(Propylene Fumarate) Based Biodegradable Bone Cement," Inaugural TES Meeting, Orlando, Florida, December 13, 1996.
113. A.W. Yasko\*, S.L. Ishaug-Riley, G.M. Crane, D.A. Ray, and A.G. Mikos, "Orthotopic Bone Formation Using Three Dimensional Osteoblast/Polymer Constructs," Inaugural TES Meeting, Orlando, Florida, December 13, 1996.
114. M.J. Miller\*, A.G. Mikos, M.A. Schusterman, and L.V. McIntire, "The Evolution of a Strategy for Progress in Tissue Engineering," Inaugural TES Meeting, Orlando, Florida, December 14, 1996.
115. G.R.D. Evans\*, K. Brandt, A.G. Mikos, E. Peden, G.M. Crane, and S.L. Ishaug-Riley, "Biodegradable Tissue Engineered Polymer Nerve Conduits: Their Use as Scaffold in Peripheral Nerve Regeneration," Inaugural TES Meeting, Orlando, Florida, December 14, 1996.
116. S.L. Ishaug-Riley\*, G.M. Crane, A. Gurlek, M.J. Miller, A.W. Yasko, M.J. Yaszemski, and A.G. Mikos, "Ectopic Bone Formation Using Three Dimensional Osteoblast/Polymer Constructs," Annual Meeting of Orthopaedic Research Society, San Francisco, California, February 9, 1997.
117. D.J. Kim\*, S.J. Peter, A.W. Yasko, M.J. Yaszemski, and A.G. Mikos, "Osteoblastic Cellular Behavior on a Poly(Propylene Fumarate) Based Orthopaedic Biomaterial," 15th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 13, 1997.
118. M.S. Widmer\*, G.R.D. Evans, K. Brandt, T. Savel, C.W. Patrick, Jr., and A.G. Mikos, "Manufacture of Porous Biodegradable Polymer Scaffolds for Nerve Regeneration," 15th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 14, 1997.
119. G.R.D. Evans, K. Brandt, M.C. Wake, P. Gupta, T. Savel\*, M.S. Widmer, C.W. Patrick, Jr., and A.G. Mikos, "Tissue Engineered Nerve Conduits: The Use of Biodegradable Polymer Scaffolds in Peripheral Nerve Regeneration. A Preliminary Report," 15th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 14, 1997.
120. R.L. Cleek\*, A.A. Rege, L. Denner, S.G. Eskin, and A.G. Mikos, "bFGF Antibody Released from Biodegradable Polymer Microparticles Inhibits bFGF-Stimulated Smooth Muscle Cell Proliferation," 15th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 14, 1997.
121. L. Lu\*, C.A. Garcia, and A.G. Mikos, "Morphological and Structural Properties of a Human RPE Cell Line Cultured on Synthetic Biodegradable Polymers," 15th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 14, 1997.
122. A.G. Mikos\*, S.L. Riley, G.M. Crane, M.J. Miller, M.J. Yaszemski, and A.W. Yasko, "Cell Based Delivery Systems for Bone Growth Factors," 8th International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, Utah, February 24, 1997.
123. M. Smith\*, M.J. Miller, G.M. Crane, A. Khoo, A. Gurlek, and A.G. Mikos, "Cranial Defect Repair with Osteoblast Transplantation," 42nd Annual Meeting of the Plastic Surgery Research Council, Galveston, Texas, February 28, 1997.



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124. L. Lu, A.G. Mikos\*, and C.A. Garcia, "Morphological and Structural Properties of a Human RPE Cell Line Cultured on Biodegradable Polymer Substrates," National ACS Meeting, San Francisco, California, April 16, 1997.
125. S.L. Ishaug-Riley\*, G.M. Crane, A. Gurlek, M.J. Miller, A.W. Yasko, M.J. Yaszemski, and A.G. Mikos, "Ectopic Bone Formation by Marrow Stromal Osteoblast Transplantation Using Poly(DL-Lactic-co-Glycolic Acid) Foams Implanted into the Rat Mesentery," 23rd Annual Meeting of the Society For Biomaterials, New Orleans, Louisiana, May 1, 1997.
126. L.J. Suggs\*, E.Y. Kao, R.S. Krishnan, C.W. Patrick, and A.G. Mikos, "Evaluation of a Biodegradable Block Copolymer for Use as a Vascular Implant," 23rd Annual Meeting of the Society For Biomaterials, New Orleans, Louisiana, May 1, 1997.
127. M.S. Widmer\*, A.C. Jen, R.D. Bostrom, and A.G. Mikos, "Cell Seeding in Three Dimensional Scaffolds," 23rd Annual Meeting of the Society For Biomaterials, New Orleans, Louisiana, May 1, 1997.
128. R.L. Cleek\*, A.A. Rege, L.A. Denner, S.G. Eskin, and A.G. Mikos, "Inhibition of Smooth Muscle Cell Growth In Vitro by an Antisense Oligodeoxynucleotide Released from Poly(DL-Lactic-co-Glycolic Acid) Microparticles," 23rd Annual Meeting of the Society For Biomaterials, New Orleans, Louisiana, May 2, 1997.
129. L. Lu\*, A.G. Mikos, and C.A. Garcia, "Morphological and Structural Properties of a Human RPE Cell Line Cultured on Biodegradable Polymer Substrates," Annual ARVO (Association for Research in Vision and Ophthalmology) Meeting, Fort Lauderdale, Florida, May 12, 1997.
130. M.S. Widmer\*, G.R.D. Evans, K. Brandt, T. Savel, C.W. Patrick, Jr., and A.G. Mikos, "Porous Biodegradable Polymer Scaffolds for Nerve Regeneration," ASME Summer Bioengineering Conference, Sunriver, Oregon, June 14, 1997.
131. S.J. Peter, J.A. Nolley, D.B. Kim, M.S. Widmer, P.S. Engel, A.W. Yasko, M.J. Yaszemski, and A.G. Mikos\*, "Curing Characteristics and Mechanical Properties of a Poly(Propylene Fumarate) Based Orthopaedic Biomaterial," ASME Summer Bioengineering Conference, Sunriver, Oregon, June 14, 1997.
132. R.L. Cleek, R.J. Bjercke, A.A. Rege, S.G. Eskin, and A.G. Mikos\*, "Biodegradable Polymeric Carriers for a bFGF Antibody for Cardiovascular Application," 24th International Symposium on Controlled Release of Bioactive Materials, Stockholm, Sweden, June 18, 1997.
133. L. Lu\*, C.A. Garcia, and A.G. Mikos, "Retinal Pigment Epithelium Tissue Engineering," 11th World Congress of the International Society for Artificial Organs, Providence, Rhode Island, July 1, 1997.
134. A.G. Mikos\*, "Polymeric Delivery Systems for Antisense Oligonucleotides," The Whitaker Foundation Biomedical Engineering Research Conference, Snowbird, Utah, July 12, 1997.
135. A.G. Mikos\*, S.L. Riley, R.C. Thomson, G.M. Crane, A. Gurlek, M.J. Miller, A.W. Yasko, and M.J. Yaszemski, "Guided Bone Regeneration Using Biodegradable Polymer Scaffolds," 1st Smith & Nephew International Symposium on Advances in Tissue Engineering and Biomaterials, York, England, July 21, 1997.
136. G.M. Crane, M. Smith, A. Gurlek, A.K.M. Khoo, M.J. Miller, and A.G. Mikos\*, "Rat Cranial Defect Repair by Marrow Stromal Osteoblast Transplantation," 1st Smith & Nephew International Symposium on Advances in Tissue Engineering and Biomaterials, York, England, July 21, 1997.



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137. K. Brandt, G.R.D. Evans\*, M. Widmer, T. Savel, A. Gurlek, R. Lohman, A. Nabawi, J. Williams, C. Patrick, and A.G. Mikos, "Tissue Engineered Nerve Using Biodegradable PLGA Conduits," 1st Smith & Nephew International Symposium on Advances in Tissue Engineering and Biomaterials, York, England, July 21, 1997.
138. S.J. Peter, M.J. Miller, A.W. Yasko, M.J. Yaszemski, and A.G. Mikos\*, "Polymer Concepts Regarding Tissue Engineering," Portland Bone Symposium, Portland, Oregon, August 8, 1997.
139. A.G. Mikos\*, "Biodegradable Polymers for Tissue Engineering," Medical Textiles Conference, Clemson University, Clemson, South Carolina, September 9, 1997.
140. E. Yuksel\*, R. Cleek, J. Jensen, A. Weinfeld, A.G. Mikos, S. Shenaq, and M. Spira, "Delivery of Insulin, IGF-1, BFGF and VEGF in PLGA/PEG Microparticles to Augment Adiposofascial Flaps," Annual BMES Fall Meeting, San Diego, California, October 3, 1997.
141. L.J. Suggs\*, R.S. Krishnan, S.J. Peter, and A.G. Mikos, "*In Vitro* Degradation of a Crosslinked Poly(Ethylene Glycol) Copolyester," Annual BMES Fall Meeting, San Diego, California, October 3, 1997.
142. M.J. Miller\*, A. Khoo, R.C. Thomson, J.C. Lemon, A. Gurlek, and A.G. Mikos, "Vascularized Tissue Scaffold Apparatus for Guided Tissue Growth," Annual BMES Fall Meeting, San Diego, California, October 4, 1997.
143. G.R.D. Evans\*, K. Brandt, M. Widmer, T. Savel, A. Gurlek, R. Lohman, A. Nawabi, J. Williams, C. Patrick, and A.G. Mikos, "Tissue Engineered Nerve Conduits: Their Use in Peripheral Nerve Surgery," Annual BMES Fall Meeting, San Diego, California, October 4, 1997.
144. S.J. Peter\*, D.J. Kim, and A.G. Mikos, "Three-Dimensional Bone Formation in Injectable, Biodegradable Polymer Scaffolds," Annual BMES Fall Meeting, San Diego, California, October 4, 1997.
145. A.G. Mikos\*, "*In Situ* Polymerizable Biodegradable Scaffolds for Tissue Engineering," 21st Annual Symposium of Macromolecular Science and Engineering Center, The University of Michigan, Ann Arbor, Michigan, October 23, 1997.
146. R.G. Payne\*, S.A. Sivaram, J.E. Babensee, M.J. Yaszemski, A.W. Yasko, and A.G. Mikos, "Marrow Stromal Osteoblast Encapsulation and Seeding onto a Crosslinking Biodegradable Polymer," Annual AIChE Meeting, Los Angeles, California, November 17, 1997.
147. E. Yuksel\*, R. Cleek, A.B. Weinfeld, J. Waugh, J. Jensen, A.G. Mikos, S. Shenaq, and M. Spira, "Effects of Lipogenic Factors on Survival Rates of Fat Grafts," Annual AIChE Meeting, Los Angeles, California, November 18, 1997.
148. E. Yuksel\*, B. Ray, M. Widmer, A.B. Weinfeld, J. Waugh, J. Jensen, R. Cleek, A.G. Mikos, S. Shenaq, and M. Spira, "Prefabrication of Breast Utilizing Biodegradable PLGA Polymers: Angiogenic and Lipogenic Factors," Annual AIChE Meeting, Los Angeles, California, November 18, 1997.
149. R.C. Thomson, M.J. Yaszemski\*, J.M. Powers, and A.G. Mikos, "Hydroxyapatite Fiber Reinforced Poly( $\alpha$ -Hydroxy Ester) Foams for Bone Regeneration," Annual AIChE Meeting, Los Angeles, California, November 19, 1997.
150. D.J. Kim\*, S.J. Peter, A.W. Yasko, M.J. Miller, M.J. Yaszemski, and A.G. Mikos, "TGF- $\beta$  Induced Osteoblastic Behavior on a Poly(Propylene Fumarate) Based Orthopaedic Biomaterial," Annual AIChE Meeting, Los Angeles, California, November 19, 1997.



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151. E. Yuksel\*, M. Widmer, A.B. Weinfeld, M. Kattash, J. Waugh, J. Jensen, A.G. Mikos, and S. Shenaq, "Generation of Shaped Cartilage Using Perichondrial and Periosteal Flaps Activated by Growth Factor-Incorporated Biodegradable Scaffolds," Annual AIChE Meeting, Los Angeles, California, November 19, 1997.
152. A.G. Mikos\*, "Materials and Scaffolds for Building Three Dimensional Tissues *In Vitro*," Workshop on Tissue Based Biosensors, Defense Advanced Research Projects Agency, George Washington University Campus, Ashburn, Virginia, December 10, 1997.
153. A.G. Mikos\*, "Guided Bone Regeneration Using Biodegradable Polymer Scaffolds," Bionic Design Workshop: Reconstruction of Biological Functions and Structures, National Institute for Advanced Interdisciplinary Research, Tsukuba, Japan, January 20, 1998.
154. G. Liu\*, S.G. Eskin, and A.G. Mikos, "Inhibitory Effects of b3 Integrin Antibody on the Migration of Vascular Adventitial Fibroblasts Induced by Basic Fibroblast Growth Factor," 17th Southern Biomedical Engineering Conference, San Antonio, Texas, February 7, 1998.
155. E. Yuksel\*, M. Widmer, R. Cleek, A. Weinfeld, M. Kattash, A.G. Mikos, S. Shenaq, and M. Spira, "Vascularized Perichondrial Flaps for *In Vivo* Tissue Engineering in Auricular Reconstruction: Two Rabbit Models," 17th Southern Biomedical Engineering Conference, San Antonio, Texas, February 7, 1998.
156. A. Weinfeld\*, E. Yuksel, S. Wamsley, J. Jensen, B. Boutros, R. Cleek, A.G. Mikos, S. Shenaq, and M. Spira, "Improvement of Free Fat Graft Survival: *In Vivo* Long-Term Delivery of IGF and Insulin Using PLGA/PEG Microspheres," 17th Southern Biomedical Engineering Conference, San Antonio, Texas, February 7, 1998.
157. L.J. Suggs\*, C.A. Garcia, and A.G. Mikos, "An Injectable, Biodegradable PEG Copolyester as a Carrier for Endothelial Cells," 17th Southern Biomedical Engineering Conference, San Antonio, Texas, February 7, 1998.
158. E. Yuksel\*, A. Jedrysiak, A. Weinfeld, A.G. Mikos, M. Spira, and S. Shenaq, "A Novel Fascio-Cutaneous Island Flap Model in the Rat for the Quantitative Analysis of Neo-Angiogenesis," 17th Southern Biomedical Engineering Conference, San Antonio, Texas, February 7, 1998.
159. S.J. Peter\*, C.R. Liang, D.J. Kim, M.S. Widmer, and A.G. Mikos, "Osteoblastic Phenotype of Marrow Stromal Cells Cultured in the Presence of Dexamethasone," 17th Southern Biomedical Engineering Conference, San Antonio, Texas, February 7, 1998.
160. E. Yuksel\*, R. Ray, S. Wamsley, A. Weinfeld, J. Waugh, M. Widmer, R. Cleek, A.G. Mikos, S. Shenaq, and M. Spira, "Soft Tissue Engineering *In Vivo* with PLGA Scaffolds and PLGA/PEG Microsphere Long Term Delivery of Lipogenic Factors," 17th Southern Biomedical Engineering Conference, San Antonio, Texas, February 8, 1998.
161. E. Yuksel\*, A.B. Weinfeld, J. Waugh, R. Cleek, A.G. Mikos, M. Spira, and S. Shenaq, "*In Vivo* Engineering of Vascularized Fat Flaps: Long-Term Delivery of Angiogenic Factors for Axially Neo-Vascularized Tissues," 17th Southern Biomedical Engineering Conference, San Antonio, Texas, February 8, 1998.
162. G.R.D. Evans\*, K. Brandt, M.S. Widmer, R.K. Meszlenyi, J. Hodges, P.K. Gupta, J. Williams, A. Gürlek, R. Lohman, C.W. Patrick, and A.G. Mikos, "Poly(L-Lactic Acid) (PLLA) Biodegradable Nerve Scaffolds for Peripheral Nerve Regeneration," 16th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, April 2, 1998.



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163. M.J. Miller\*, A. Khoo, R.C. Thomson, J.C. Lemon, A. Gürlek, and A.G. Mikos, "In Vivo Fabrication of Vascularized Tissue Scaffolds," 16th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, April 2, 1998.
164. C.R. Liang\*, S.J. Peter, D.J. Kim, M.S. Widmer, and A.G. Mikos, "Osteoblastic Phenotype of Marrow Stromal Cells Cultured in the Presence of Dexamethasone," 16th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, April 2, 1998.
165. G. Liu\*, S.G. Eskin, and A.G. Mikos, "Basic Fibroblast Growth Factor-Stimulated Adventitial Fibroblast Migration Due to b3 Integrin Regulation," 16th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, April 2, 1998.
166. W.T. Godbey\*, K.K. Wu, and A.G. Mikos, "Size Matters: Molecular Weight Affects the Efficiency of Poly(Ethylenimine) as a Gene Delivery Vehicle," 16th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, April 3, 1998.
167. S.J. Peter\*, P. Kim, A.W. Yasko, and A.G. Mikos, "Modulation of Handling Characteristics and Mechanical Properties of an *In Situ* Polymerizable Orthopaedic Biomaterial," MRS Spring Meeting, San Francisco, California, April 14, 1998.
168. G. Liu\*, S.G. Eskin, and A.G. Mikos, "Effects of Growth Factors on the Migration and Proliferation of Vascular Adventitial Fibroblasts," Experimental Biology 98, San Francisco, California, April 19, 1998.
169. L.J. Suggs\* and A.G. Mikos, "In Vitro Thrombogenicity of an Injectable, Biodegradable PEG Copolyester," 24th Annual Meeting of the Society For Biomaterials, San Diego, California, April 23, 1998.
170. M.S. Widmer, P.K. Gupta, L. Lu\*, G.R.D. Evans, K. Brandt, T. Savel, A. Gurlek, C.W. Patrick, Jr., and A.G. Mikos, "Manufacture and Characterization of Porous Biodegradable Polymer Conduits for Peripheral Nerve Regeneration," 24th Annual Meeting of the Society For Biomaterials, San Diego, California, April 23, 1998.
171. S.J. Peter\*, S.T. Miller, G. Zhu, A.W. Yasko, and A.G. Mikos, "In Vivo Degradation of a Poly(Propylene Fumarate)/ $\beta$ -Tricalcium Phosphate Injectable Composite Scaffold," 24th Annual Meeting of the Society For Biomaterials, San Diego, California, April 24, 1998.
172. G.R.D. Evans, K. Brandt, M.S. Widmer, J. Hodges, P.K. Gupta, J. Williams, A. Gürlek, R. Lohman, C.W. Patrick, and A.G. Mikos\*, "Poly(L-Lactic Acid) (PLLA) Biodegradable Nerve Scaffolds: Their Utilization in Peripheral Nerve Surgery," 24th Annual Meeting of the Society For Biomaterials, San Diego, California, April 24, 1998.
173. L. Lu\*, R. Kapur, C.A. Garcia, and A.G. Mikos, "Morphological Study of a Human RPE Cell Line Cultured on Patterned Biodegradable Polymer Substrates," Annual ARVO (Association for Research in Vision and Ophthalmology) Meeting, Fort Lauderdale, Florida, May 10, 1998.
174. M.J. Yaszemski\*, D. Kim, S.J. Peter, A.W. Yasko, M.J. Miller, and A.G. Mikos, "TGF- $\beta$  Induced Osteoblastic Behavior on a Poly(Propylene Fumarate) Based Orthopaedic Biomaterial," Annual Meeting of the American Orthopaedic Association, Asheville, North Carolina, June 3, 1998.
175. A.G. Mikos\*, "Biodegradable Polymers for Tissue Engineering," 3rd International Business Communications Industry Symposium on Advancements in Tissue Engineering, Boston, Massachusetts, June 9, 1998.



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176. A. Göpferich\*, S.J. Peter, C. Vergani, F.V. Burkersroda, and A.G. Mikos, "Biodegradable Block-Copolymers as Drug and Cell Carriers," 25th International Symposium on Controlled Release of Bioactive Materials, Las Vegas, Nevada, June 23, 1998.
177. W.T. Godbey\*, K.K. Wu, and A.G. Mikos, "Size Matters: Molecular Weight Affects the Efficiency of Poly(Ethylenimine) as a Gene Delivery Vehicle," 25th International Symposium on Controlled Release of Bioactive Materials, Las Vegas, Nevada, June 24, 1998.
178. L. Lu\*, C.A. Garcia, and A.G. Mikos, "Tissue Engineering of Retinal Pigment Epithelium Using Thin Poly(DL-Lactic-co-Glycolic Acid) Films," Annual BMES Fall Meeting, Cleveland, Ohio, October 12, 1998.
179. S.J. Peter, C.R. Liang, D.J. Kim, M.S. Widmer, and A.G. Mikos\*, "Engineering the Osteoblastic Phenotype of Marrow-Derived Cells Using Cell Culture Supplements," Annual BMES Fall Meeting, Cleveland, Ohio, October 12, 1998.
180. E. Behraves, P.S. Engel, A.W. Yasko, and A.G. Mikos\*, "Synthetic Biodegradable Polymers for Orthopaedic Applications," Association of Bone and Joint Surgeons Orthopaedic Tissue Engineering Workshop, Tampa, Florida, November 13, 1998.
181. G. Liu\*, S.G. Eskin, and A.G. Mikos, "Basic FGF Directed Migration of Vascular Adventitial Fibroblasts Via Integrin Regulation," Annual AIChE Meeting, Miami Beach, Florida, November 16, 1998.
182. J.E. Babensee\*, L.V. McIntire, A.G. Mikos, and C.W. Smith, "Leukocyte Response to Biomaterial Implantation - Role of Complement Using Mouse Models," Annual AIChE Meeting, Miami Beach, Florida, November 17, 1998.
183. L. Lu\*, C.A. Garcia, and A.G. Mikos, "In Vitro Degradation of Thin Poly(DL-Lactic-co-Glycolic Acid) Films," Annual AIChE Meeting, Miami Beach, Florida, November 18, 1998.
184. L. Lu\*, R. Bizios, C.A. Garcia, A.G. Mikos, and L.C. Kam, "Human Retinal Pigment Epithelium Cell Culture on Patterned Surfaces," Annual AIChE Meeting, Miami Beach, Florida, November 18, 1998.
185. A.S. Goldstein\*, V. Liu, and A.G. Mikos, "Enhanced Growth of Osteoblastic Cells in Porous Scaffolds by Forced Convection," Annual AIChE Meeting, Miami Beach, Florida, November 18, 1998.
186. M.C. Wake, P.D. Gerecht, L. Lu, and A.G. Mikos\*, "Biodegradable Particulate Polymer Effects on Marrow Stromal Osteoblasts *In Vitro*," 2nd Bi-Annual TES Meeting, Orlando, Florida, December 4, 1998.
187. M.B. Schulz\*, A. Göpferich, A.S. Goldstein, and A.G. Mikos, "PEG-PLA Diblock Copolymers for Tissue Engineering of Bone," 2nd Bi-Annual TES Meeting, Orlando, Florida, December 4, 1998.
188. S. Katz, G.R.D. Evans, K. Brandt, P. Chauvin, L. Otto, R. Meszlenyi, B. Wang, T. King, A.G. Mikos, and C. Patrick\*, "Bioactive, Poly(L-Lactic Acid) Conduits for Peripheral Nerve Regeneration," 2nd Bi-Annual TES Meeting, Orlando, Florida, December 4, 1998.
189. G.N. Stamatas\*, L. Lu, and A.G. Mikos, "Transforming Growth Factor- $\beta$ 1 (TGF- $\beta$ 1) Release Studies from Biodegradable Poly(Lactic-co-Glycolic Acid)/Poly(Ethylene Glycol) (PLGA/PEG) Microparticles," 2nd Bi-Annual TES Meeting, Orlando, Florida, December 4, 1998.



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190. A.S. Goldstein\*, G. Zhu, and A.G. Mikos, "Enhancement of Cellularity in Biodegradable Polymer Foams *In Vitro*," 2nd Bi-Annual TES Meeting, Orlando, Florida, December 4, 1998.
191. S.-L. He\* and A.G. Mikos, "Injectable, *In Situ* Crosslinkable Biodegradable Orthopaedic Scaffolds Based on Poly(Propylene Fumarate) and Degradable Crosslinking Agents," 2nd Bi-Annual TES Meeting, Orlando, Florida, December 4, 1998.
192. R.G. Payne\*, S.A. Sivaram, J.E. Babensee, A.W. Yasko, M.J. Yaszemski, and A.G. Mikos, "Temporary Encapsulation of Rat Marrow Osteoblasts in Gelatin Microspheres," 2nd Bi-Annual TES Meeting, Orlando, Florida, December 4, 1998.
193. S.J. Peter, M.J. Miller, A.W. Yasko, M.J. Yaszemski, and A.G. Mikos\*, "New Strategies for Bone Tissue Engineering," 11th International Workshop on Calcified Tissues, Eilat, Israel, February 11, 1999.
194. G.R.D. Evans\*, K. Brandt, S. Katz, P. Chauvin, L. Otto, M. Bogle, R.K. Meszlenyi, B. Wang, T. King, A.G. Mikos, and C.W. Patrick, "The Utilization of Schwann Cells in Poly(L-Lactic Acid) Conduits for Nerve Regeneration," 17th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 11, 1999.
195. W.T. Godbey\*, K.K. Wu, G.J. Hirasaki, and A.G. Mikos, "Improved Packing of Poly(Ethylenimine)/DNA Complexes Increases Transfection Efficiency," 17th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 12, 1999.
196. C.G. Ambrose\*, G.R. Gogola, T. Clyburn, A. Peng, and A.G. Mikos, "PLGA/PEG Microspheres as an Antibiotic Delivery System for Osteomyelitis," 17th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 12, 1999.
197. L. Lu, S.J. Peter, G.N. Stamatas, and A.G. Mikos\*, "Polymeric Delivery Vehicles for Bone Growth Factors," National ACS Meeting, Anaheim, California, March 21, 1999.
198. L.J. Suggs, M.J. Yaszemski, and A.G. Mikos\*, "Development of Poly(Propylene Fumarate-co-Ethylene Glycol): An Injectable, Biodegradable Cardiovascular Implant," National ACS Meeting, Anaheim, California, March 22, 1999.
199. K.J.L. Burg\*, A.G. Mikos, R.J. Beiler, C.R. Culberson, K.G. Greene, A.B. Loeb sack, W.D. Roland, S. Wyatt, C.R. Halberstadt, W.D. Holder, Jr., and T.C. Burg, "Particulate Selection and Importance to Cell Adhesion in Solvent-Cast, Particulate-Leached Polymeric Constructs," 25th Annual Meeting of the Society For Biomaterials, Providence, Rhode Island, April 29, 1999.
200. S.-L. He\*, M.J. Yaszemski, A.W. Yasko, and A.G. Mikos, "Development of a Biodegradable Bone Cement Based on Poly(Propylene Fumarate) and a Macromer," 25th Annual Meeting of the Society For Biomaterials, Providence, Rhode Island, April 29, 1999.
201. J.E. Babensee\*, L.V. McIntire, A.G. Mikos, and C.W. Smith, "The Role of Complement in the Leukocyte Response to Biomaterial Implantation," 25th Annual Meeting of the Society For Biomaterials, Providence, Rhode Island, April 29, 1999.
202. L. Lu\*, G.N. Stamatas, and A.G. Mikos, "Delivery of Transforming Growth Factor- $\beta$ 1 from Poly(DL-Lactic-co-Glycolic Acid)/Poly(Ethylene Glycol) Microparticles," 25th Annual Meeting of the Society For Biomaterials, Providence, Rhode Island, April 29, 1999.
203. L.J. Suggs\*, M.S. Shive, C.A. Garcia, J.M. Anderson, and A.G. Mikos, "*In Vitro* Cytotoxicity and *In Vivo* Biocompatibility of Poly(Propylene Fumarate-co-Ethylene



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- Glycol) Hydrogels,” 25th Annual Meeting of the Society For Biomaterials, Providence, Rhode Island, May 2, 1999.
204. Q. Liu\*, S.-L. He, R. Bahulekar, and A.G. Mikos, “Porous Anionic Hydrogels Based on sIPNs of Poly(2-Hydroxyethyl Methacrylate) and Poly(Acrylic Acid),” 25th Annual Meeting of the Society For Biomaterials, Providence, Rhode Island, May 2, 1999.
  205. A.G. Mikos\*, “Bone Repair by Tissue Engineering,” Congress on In Vitro Biology, New Orleans, Louisiana, June 7, 1999.
  206. L. Lu\*, L.C. Kam, M. Hasenbein, R. Bizios, and A.G. Mikos, “Human Retinal Pigment Epithelium Cell Culture on Patterned Surfaces,” ASME Summer Bioengineering Conference, Big Sky, Montana, June 17, 1999.
  207. J.B. Oldham\*, B.D. Porter, T.-S. Tan, H. Brisby, B.L. Currier, A.G. Mikos, and M.J. Yaszemski, “Influence of Changes in Experimental Parameters on Size of PLGA Microspheres,” ASME Summer Bioengineering Conference, Big Sky, Montana, June 20, 1999.
  208. J.B. Oldham\*, B.D. Porter, T.E. Hefferan, B.L. Currier, A.G. Mikos, and M.J. Yaszemski, “Biologic Activity of rhBMP-2 Following Release from PLGA Microspheres,” ASME Summer Bioengineering Conference, Big Sky, Montana, June 20, 1999.
  209. B.D. Porter\*, J.B. Oldham, R.G. Payne, K.-N. An, B.L. Currier, A.G. Mikos, and M.J. Yaszemski, “Mechanical Properties of a Biodegradable Bone Regeneration Scaffold,” ASME Summer Bioengineering Conference, Big Sky, Montana, June 20, 1999.
  210. W.T. Godbey\*, K.K. Wu, G.J. Hirasaki, and A.G. Mikos, “Improved Packing of Poly(Ethylenimine)/DNA Complexes Increases Transfection Efficiency,” 26th International Symposium on Controlled Release of Bioactive Materials, Boston, Massachusetts, June 22, 1999.
  211. W.T. Godbey\*, K.K. Wu, and A.G. Mikos, “Tracking the Intracellular Path of PEI/DNA Complexes for Gene Delivery,” 26th International Symposium on Controlled Release of Bioactive Materials, Boston, Massachusetts, June 23, 1999.
  212. A.G. Mikos\*, “Polymers as Drug Delivery Vehicles for Tissue Growth,” Gordon Research Conference on Tissue Engineering, Biomaterials, and Biocompatibility, Plymouth, New Hampshire, July 19, 1999.
  213. W.T. Godbey, K.K. Wu, and A.G. Mikos\*, “Synthetic Polymers for Non-Viral Gene Delivery,” 4th Asia-Pacific Conference on Medical and Biological Engineering, Seoul, Korea, September 13, 1999.
  214. S.J. Peter, M.J. Miller, A.W. Yasko, M.J. Yaszemski, and A.G. Mikos\*, “Polymer Concepts in Tissue Engineering,” Academy of Dental Materials Annual Meeting, Tempe, Arizona, October 28, 1999.
  215. E. Behravesch\* and A.G. Mikos, “Adhesion and Differentiation of Marrow Stromal Osteoblasts on Synthetic Biodegradable Hydrogels,” Annual AIChE Meeting, Dallas, Texas, November 3, 1999.
  216. R. Bizios, L. Lu\*, A.G. Mikos, K. Nyalakonda, and A. Göpferich, “Novel Micropatterned Surfaces Fabricated from Synthetic Biodegradable Polymers for Retinal Pigment Epithelium Cell Culture,” Annual AIChE Meeting, Dallas, Texas, November 3, 1999.
  217. W.T. Godbey\*, K.K. Wu, and A.G. Mikos, “Poly(Ethylenimine) Affords Two Types of Protection Against DNA Degradation,” Annual AIChE Meeting, Dallas, Texas, November 3, 1999.



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218. M.A. Barry, J.S. Blum\*, and A.G. Mikos, "Gene Therapy for Bone Tissue Engineering," Annual AIChE Meeting, Dallas, Texas, November 3, 1999.
219. A.G. Mikos and A.K. Shung\*, "Cell Adhesion on Biodegradable Copolymer Hydrogels for Use in Cardiovascular Applications," Annual AIChE Meeting, Dallas, Texas, November 5, 1999.
220. A.I. Caplan, A.S. Goldstein\*, M. Gustin, and A.G. Mikos, "Osteoblastic Cell Growth and Function in PLGA/Ceramic Foams," Annual AIChE Meeting, Dallas, Texas, November 5, 1999.
221. A.S. Goldstein\*, T.M. Juarez, C.D. Helmke, M.C. Gustin, and A.G. Mikos, "Effect of Convection on Osteoblastic Cell Proliferation and Function in Porous Scaffolds," Second BioValley Tissue Engineering Symposium, Freiburg, Germany, November 26, 1999.
222. J.S. Temenoff and A.G. Mikos\*, "Bone Tissue Engineering Using Synthetic Biodegradable Polymer Scaffolds," Bone Engineering Workshop, Toronto, Canada, December 2, 1999.
223. W.T. Godbey and A.G. Mikos\*, "Recent Progress in Poly(Ethylenimine)-Mediated Gene Delivery," 2000 Research Initiatives Conference in Vascular Disease on the Biology of Vascular Interventions-Minimally Invasive Approaches to Vascular Disease, Bethesda, Maryland, February 18, 2000.
224. E. Behraves\*, T.M. Juarez, and A.G. Mikos, "Marrow Stromal Osteoblast Adhesion on Poly(Propylene Fumarate) Based Hydrogels," 18th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 10, 2000.
225. S. Jo\* and A.G. Mikos, "Modification of Poly(Ethylene Glycol)-Tethered Poly(Propylene-co-Fumarate) with RGD Peptide," 18th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 10, 2000.
226. A.K. Shung\* and A.G. Mikos, "Cell Adhesion on Biodegradable Copolymer Hydrogels for Cardiovascular Applications," 18th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 10, 2000.
227. M.D. Timmer\*, S. He, A.G. Mikos, and C.G. Ambrose, "Investigation of a Poly(Propylene Fumarate)-Based Polymer for Bioresorbable Interbody Fusion Cage," 18th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 11, 2000.
228. J.S. Blum\*, M.A. Barry, and A.G. Mikos, "Gene Therapy in Bone Tissue Engineering," 18th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 11, 2000.
229. W.T. Godbey\*, M.A. Barry, P. Saggau, K.K. Wu, and A.G. Mikos, "Poly(Ethylenimine)-Mediated Transfection: A New Paradigm for Non-Viral Gene Delivery," 18th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 11, 2000.
230. G. Gogola\*, C. Ambrose, A. Peng, and A.G. Mikos, "PLGA/PEG Microspheres as an Antibiotic Delivery System," Annual Meeting of Orthopaedic Research Society, Orlando, Florida, March 12, 2000.
231. A.G. Mikos\*, "Guided Bone Regeneration Using Biodegradable Polymer Scaffolds" (Alessandro Codivilla Lecture), Association for the Study and Application of the Methods of Ilizarov Annual Scientific Meeting, Orlando, Florida, March 13, 2000.
232. J.S. Temenoff and A.G. Mikos\*, "Bone Tissue Engineering Using Biodegradable Polymer Scaffolds," Annual Meeting of Orthopaedic Research Society and American Academy of Orthopaedic Surgeons, Orlando, Florida, March 15, 2000.



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233. W.T. Godbey and A.G. Mikos\*, "Poly(Ethylenimine) as a Gene Delivery Vehicle and Its Potential for Tissue Engineering," European Symposium on Controlled Drug Delivery, Noordwijk aan Zee, The Netherlands, April 13, 2000.
234. A.G. Mikos\*, "Engineering of Bone," Croucher Advanced Study Institute on Engineering of Musculoskeletal Tissues, Kowloon, Hong Kong, April 16, 2000.
235. A.G. Mikos\*, "Biodegradable Polymer Scaffolds for Musculoskeletal Tissue Engineering," Croucher Advanced Study Institute on Engineering of Musculoskeletal Tissues, Kowloon, Hong Kong, April 17, 2000.
236. J.S. Temenoff and A.G. Mikos\*, "Biocompatibility Issues with Biodegradable Polymers," 6th World Biomaterials Congress, Kamuela, Hawaii, May 16, 2000.
237. S. He\*, M.J. Yaszemski, P.S. Engel, and A.G. Mikos, "Injectable, *In Situ* Crosslinkable, Biodegradable Poly(Propylene Fumarate) Networks for Orthopaedic Tissue Engineering," 6th World Biomaterials Congress, Kamuela, Hawaii, May 18, 2000.
238. W.T. Godbey\*, M.A. Barry, P. Saggau, K.K. Wu, and A.G. Mikos, "Transfection with Poly(Ethylenimine) Is More Like Hitting Cells with a Bullet than a Sponge," 6th World Biomaterials Congress, Kamuela, Hawaii, May 18, 2000.
239. J.E. Babensee\*, L.V. McIntire, A.G. Mikos, and J. Rodgers, "Exogenous Antigen-Specific Immune Response Upon Biomaterial Contact," 6th World Biomaterials Congress, Kamuela, Hawaii, May 19, 2000.
240. S. Jo\*, A.K. Shung, H. Shin, and A.G. Mikos, "Synthesis and Characterization of a Novel Poly(Ethylene Glycol) Macromer Based on Fumaric Acid," 6th World Biomaterials Congress, Kamuela, Hawaii, May 20, 2000.
241. S. Jo\* and A.G. Mikos, "Modification of a Novel Poly(Ethylene Glycol) Macromer Based on Fumaric Acid with GRGD Peptide," 6th World Biomaterials Congress, Kamuela, Hawaii, May 20, 2000.
242. J. Tessmar\*, A.G. Mikos, and A. Göpferich, "A New Biodegradable Polymer for the Modification of Surfaces: H<sub>2</sub>N-Poly(Ethylene Glycol)-Poly(D,L-Lactic Acid)," 6th World Biomaterials Congress, Kamuela, Hawaii, May 20, 2000.
243. R. Bahulekar\*, Q. Liu, and A.G. Mikos, "Synthesis and Characterization of Hydrogels Containing Sugar-Methacrylate Monomer," 6th World Biomaterials Congress, Kamuela, Hawaii, May 20, 2000.
244. J.S. Blum\*, E.A. Davis, R.H. Li, M.A. Barry, and A.G. Mikos, "A New *In Vitro* Assay for the Detection of rhBMP-2 Produced by Genetically Modified Cells," 3rd International Conference on Bone Morphogenetic Proteins, Lake Tahoe, California, June 9, 2000.
245. L. Lu, S.J. Peter, G.N. Stamatias, D.J. Kim, M.J. Miller, M.J. Yaszemski, and A.G. Mikos\*, "Controlled Release of TGF- $\beta$ 1 from Biodegradable Polymer Microparticles and Its Effects on Marrow Stromal Osteoblast Function," 3rd International Conference on Bone Morphogenetic Proteins, Lake Tahoe, California, June 10, 2000.
246. W.T. Godbey\*, K.K. Wu, and A.G. Mikos, "Non-Viral Gene Delivery Affects Endothelial Cell Function and Viability," 27th International Symposium on Controlled Release of Bioactive Materials, Paris, France, July 11, 2000.
247. W.T. Godbey\*, M.A. Barry, P. Saggau, K.K. Wu, and A.G. Mikos, "Poly(Ethylenimine)-Mediated Transfection: A New Paradigm for Gene Delivery," 27th International Symposium on Controlled Release of Bioactive Materials, Paris, France, July 11, 2000.



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248. J. Tessmar\*, A.G. Mikos, and A. Göpferich, "New Biodegradable Polymers for the Development of Biomimetic Biomaterials," 27th International Symposium on Controlled Release of Bioactive Materials, Paris, France, July 12, 2000.
249. A.G. Mikos\*, "Present and Future Status of Tissue/Organ Bioengineering: An Approach to the 21st Century Medicine," 16th Annual Meeting of Japan Society of Drug Delivery System, Akita, Japan, July 29, 2000.
250. W.T. Godbey and A.G. Mikos\*, "Non-Viral Gene Delivery Vectors," International Symposium on Biomaterials and Drug Delivery Systems, Cheju Island, Korea, August 22, 2000.
251. J.S. Temenoff and A.G. Mikos\*, "Injectable Biodegradable Polymers for Tissue Engineering," Surfaces in Biomaterials, Scottsdale, Arizona, August 31, 2000.
252. A.G. Mikos\*, "Engineering Human Tissue: Challenges and Opportunities," 9th Research Council Meeting of Japan Society of Plastic and Reconstructive Surgery, Nagoya, Japan, October 5, 2000.
253. A.G. Mikos\*, "Fabrication of Biodegradable Polymer Scaffolds for Tissue Engineering," 9th Research Council Meeting of Japan Society of Plastic and Reconstructive Surgery, Satellite Symposium on Regeneration Medicine, Nagoya, Japan, October 6, 2000.
254. A.G. Mikos\*, "Biosmart Polymers," Council for the Advancement of Science Writing Annual Briefing, Houston, Texas, October 30, 2000.
255. J.P. Fisher\*, T.A. Holland, P.S. Engel, and A.G. Mikos, "Preparation and Characterization of Photocrosslinked Poly(Propylene Fumarate) for Orthopaedic Applications," Annual AIChE Meeting, Los Angeles, California, November 13, 2000.
256. A.G. Mikos\*, "Engineering Human Tissue," Annual AIChE Meeting, Los Angeles, California, November 14, 2000.
257. V.I. Sikavitsas, G.N. Bancroft, and A.G. Mikos\*, "Bioreactor Design for Three-Dimensional Cell-Polymer Constructs in Bone Tissue Engineering," 5th International Symposium on Tissue Engineering for Therapeutic Use, Tsukuba, Japan, November 17, 2000.
258. V.I. Sikavitsas\*, G.N. Bancroft, and A.G. Mikos, "Formation of Three Dimensional Cell-Polymer Constructs in Bioreactors for Bone Tissue Engineering," MRS Fall Meeting, Boston, Massachusetts, November 27, 2000.
259. R.G. Payne\*, A.W. Yasko, M.J. Yaszemski, and A.G. Mikos, "Temporary Encapsulation of Rat Marrow Osteoblasts in Gelatin Microspheres for Bone Tissue Engineering," MRS Fall Meeting, Boston, Massachusetts, November 27, 2000.
260. A.K. Shung\* and A.G. Mikos, "Effects of Block Lengths and Initial Water Content on the Swelling and Degradative Characteristics of an Injectable Poly(Propylene Fumarate-co-Ethylene Glycol) Block Copolymer Hydrogel," MRS Fall Meeting, Boston, Massachusetts, November 28, 2000.
261. E.L. Hedberg\* and A.G. Mikos, "Controlled Release of Bone Growth Factors from Injectable, Biodegradable Polymer Scaffolds for Bone Tissue Engineering," MRS Fall Meeting, Boston, Massachusetts, November 28, 2000.
262. J.P. Fisher, T.A. Holland\*, D. Dean, and A.G. Mikos, "Photocrosslinked Poly(Propylene Fumarate) Scaffolds for Orthopedic Applications," MRS Fall Meeting, Boston, Massachusetts, November 28, 2000.



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263. E. Behraves\* and A.G. Mikos, "Fabrication of an Injectable Porous Synthetic Biodegradable Hydrogel for Dental Tissue Engineering," MRS Fall Meeting, Boston, Massachusetts, November 28, 2000.
264. H. Shin\*, S. Jo, and A.G. Mikos, "Synthetic Biodegradable Polymer Networks Modulating Marrow Stromal Osteoblast Function," MRS Fall Meeting, Boston, Massachusetts, November 29, 2000.
265. J.S. Temenoff\*, S. Jo, H.-S. Shin, K.A. Athanasiou, R.G. LeBaron, and A.G. Mikos, "Novel Injectable Poly(Ethylene Glycol) Fumarate Hydrogels for Cartilage Tissue Engineering," 3rd Bi-Annual TES Meeting, Orlando, Florida, December 1, 2000.
266. G.N. Bancroft\*, V.I. Sikavitsas, and A.G. Mikos, "Three-Dimensional Culture of Cell-Polymer Constructs in Bioreactors for Bone Tissue Engineering," 3rd Bi-Annual TES Meeting, Orlando, Florida, December 1, 2000.
267. J.P. Fisher\*, J.W.M. Vehof, D. Dean, J.A. Jansen, and A.G. Mikos, "The *In Vivo* Biocompatibility of Poly(Propylene Fumarate) Scaffolds," 19th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 9, 2001.
268. E.L. Hedberg\* and A.G. Mikos, "Controlled Release of Osteoinductive Factors from Injectable, Biodegradable Polymeric Composites," 19th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 9, 2001.
269. J.S. Blum\*, R.H. Li, A.G. Mikos, and M.A. Barry, "An Optimized Method for the Chemiluminescent Detection of Alkaline Phosphatase Levels during Osteodifferentiation by Bone Morphogenetic Protein 2," 19th Annual Conference of the Houston Society for Engineering in Medicine and Biology, Houston, Texas, February 9, 2001.
270. A.G. Mikos\*, "Injectable Biodegradable Polymers for Orthopaedic Tissue Engineering," Engineering Tissue Growth International Conference and Exposition, Pittsburgh, Pennsylvania, March 27, 2001.
271. A.G. Mikos\*, "Engineering Bone Tissue," 2001 Human Genome Odyssey Conference: The Science, Business, Law and Ethics of Engineering Human Life, Akron, Ohio, April 6, 2001.
272. G.N. Bancroft, V.I. Sikavitsas\*, and A.G. Mikos, "Three-Dimensional Culture of Cell-Polymer Constructs in Bioreactors for Bone Tissue Engineering," 27th Annual Meeting of the Society For Biomaterials, Saint Paul, Minnesota, April 26, 2001.
273. M.S. Wolfe\*, D. Dean, J.E. Chen, S. Han, C. Rimnac, S.A. Goldman, A.I. Caplan, L. Solchaga, and A.G. Mikos, "*In Vitro* Degradation of Poly(Propylene Fumarate)/ $\beta$ -Tricalcium Phosphate Scaffolds," 27th Annual Meeting of the Society For Biomaterials, Saint Paul, Minnesota, April 26, 2001.
274. J.S. Temenoff\*, R.G. LeBaron, K.A. Athanasiou, and A.G. Mikos, "Novel Laminated PEG-Fumarate Hydrogels for Tissue Engineering of Articular Cartilage," 27th Annual Meeting of the Society For Biomaterials, Saint Paul, Minnesota, April 27, 2001.
275. S. He\*, J. Ulrich, R.G. Valenzuela, M. Zobitz, K.-N. An, B.L. Currier, A.G. Mikos, and M.J. Yaszemski, "Mechanical Properties of Biodegradable Poly(Propylene Fumarate)-Bone Fiber Composites During the Degradation Process," 27th Annual Meeting of the Society For Biomaterials, Saint Paul, Minnesota, April 27, 2001.
276. M.D. Timmer\*, S. He, C.G. Ambrose, and A.G. Mikos, "Mechanical Properties of Photo-Initiated, Biodegradable Polymer Networks for Prefabricated Orthopaedic Scaffolds," 27th Annual Meeting of the Society For Biomaterials, Saint Paul, Minnesota, April 28, 2001.